

Dr. B.R.AMBEDKAR OPEN UNIVERSITY
FACULTY OF SCIENCE
M.Sc. I Year – BOTANY
(2019-20)
COURSE – 01: BIOLOGY AND DIVERSITY OF VIRUSES, BACTERIA AND FUNGI

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write about economic importance of bacteria.
2. Discuss the chemical composition of fungal cell wall and its significance in Taxonomy.

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Write differences between the Gram positive and Gram negative bacteria.
2. Mushrooms

ASSIGNMENT-II

Max.Marks: 15

Min .Marks: 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Describe the Ascomycotina fungal class.
2. Explain about Fungi in Agriculture and forestry.

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

- 1 Fungi in industry
- 2 Parasexuality.

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**COURSE – 02: BIOLOGY AND DIVERSITY OF ALGAE, BRYOPHYTA AND
PTERIDOPHYTA**

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write an essay on general characters and classification in Algae”.
2. Explain about saprophyte evolution of Bryophyta

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Telome theory.
2. Economic importance of Diatoms.

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Thallus organisation in Algae.
2. Explain about stelar evolution

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Rhynia.
2. Heterospory.

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M.Sc. I Year – BOTANY
(2019-20)
COURSE – 03: GYMNOSPERMS, TAXONOMY OF ANGIOSPERMS AND
ANATOMY

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write an account of “Hutchinson’s” system of classification. Add a note on its merits and demerits of the system
2. Explain about Economic importance of Gymnosperms.

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Secondary growth
2. Herbarium

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks : 10)

I. Answer any one of the following two questions in about 30 lines.

1. International code of botanical nomenclature
2. Write an essay on conservations of biodiversity.

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. Biosystematics
2. Distribution of Gymnosperms.

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COURSE – 04: BIOCHEMISTRY AND PLANT PHYSIOLOGY

ASSIGNMENT-I

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Principles of Thermodynamics.
2. Amino acid biosynthesis in plants.

SECTION – B

(Marks: 5)

II. Answer any one of the following two questions in about 10 lines.

1. Mechanism of Enzyme action.
2. Glycolysis.

ASSIGNMENT-II

Max.Marks: 15

Min .Marks 06

SECTION – A

(Marks: 10)

I. Answer any one of the following two questions in about 30 lines.

1. Photosynthesis
2. Seed Dormancy and Vernalization

SECTION – B

(Marks : 5)

II. Answer any one of the following two questions in about 10 lines.

1. C4 cycle.
2. Oxidative Phosphorylation.

Dr. B. R. AMBEDKAR OPEN UNIVERSITY
FACULTY OF SCIENCE
M.Sc. – II YEAR – BOTANY (2019 – 20)
COURSE – 05: CELL BIOLOGY, GENETICS, BIostatISTICS & ECOLOGY

ASSIGNMENT – I

Maximum Marks – 15
Minimum Marks – 06

SECTION – A
(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Chromosomes
2. Mendelian inheritance

SECTION – B
(Marks – 5)

II. Answer any one of the following two questions in about 10 lines.

1. Mechanism of cell cycle control?
2. Green house gases

ASSIGNMENT – II

Maximum Marks – 15
Minimum Marks – 06

SECTION – A
(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Cell cycle and Apoptosis
2. Environmental pollution

SECTION – B
(Marks – 5)

II. Answer any one of the following two questions in about 10 lines.

1. Genetic code
2. Ecological pyramids

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M.Sc. – II YEAR – BOTANY (2019 – 20)

COURSE – 06: MEDICINAL PLANTS AND EMBRYOLOGY OF ANGIOSPERMS

ASSIGNMENT – I

Maximum Marks – 15
Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Why and how to conserve the medicinal plants of India?
2. Write an essay on the role of photochemical in Modern medicine

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. AYUSH
2. NPC System

ASSIGNMENT – II

Maximum Marks – 15

Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write an essay on the application of embryology in Agriculture.
2. Describe in brief the concept and scope of Ethno botany.

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. Ruminant endosperm
2. Cleavage polyembryony

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M.Sc. – II YEAR – BOTANY (2019 – 20)
COURSE – 07: APPLIED MYCOLOGY AND PLANT PATHOLOGY

ASSIGNMENT – I

Maximum Marks – 15
Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Describe briefly on chemical control of plant diseases.
2. Write different bacterial, phytoplasmol and viral diseases in plants.

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. Fungi in Bioremediation
2. Advantages and disadvantages of SCP.

ASSIGNMENT – II

Maximum Marks – 15

Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Write an account on Defiance structures formed in response to infection by the pathogen.
2. Describe the role of fungi in the detoxification of industrial effluents.

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. Secondary infection
2. History of plant pathology in India.

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M.Sc. – II YEAR – BOTANY (2019 – 20)

COURSE – 08: PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY

ASSIGNMENT – I

Maximum Marks – 15
Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Enumerate the differences between genomic and cDNA libraries
2. Discuss about the applications of restriction endonucleases in Biotechnology.

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. Eukaryotic polymerases
2. Application of genome study

ASSIGNMENT – II

Maximum Marks – 15
Minimum Marks – 06

SECTION – A

(Marks – 10)

I. Answer any one of the following two questions in about 30 lines.

1. Define and describe the polymerase chain reaction
2. Write an essay on the eukaryotic transcription

SECTION – B

(Marks – 5)

II. Answer any one of the following in about 10 lines.

1. Role of chloroplast genome in evolution
2. Risks of cultivation of transgenic plants